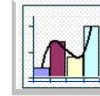
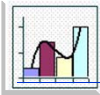


Coding and Capturing of Data



Contents

- [Organise, and code data.](#)
- Capture the data – SPSS, Ms Excel, STATISTICA.
- “Clean” (screen) the data. Determine types of data measurements.
- Calculate descriptive statistics.
- Investigate the data, by investigating the results of descriptive statistics. Choice of statistical techniques is the responsibility of the researcher.

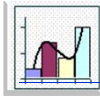


Data coding

- Number each questionnaire
- Give numerical “codes” to responses to each question
[Example](#)
- Only capture the codes
[Example](#)

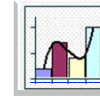
Excel template for capturing data.xlsx - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2	Qnumber	Q1.1	Q1.2	Q1.3	Q1.4	Q1.5	Q1.6	Q1.7	Q1.8	Q1.9	Q1.10	Q2.1	Q2.2	Q2.3	Q2.4	Grapes	Peaches	Plums	Cherries	Other	Q4.1	Q4.2	Q4.3	Q4.4
3	1	3	2	4	4	2	1	1	5	4	3	1	3	2	2	50			75 Litchis - 20		1	1		
4	2	1	4	3	2	3	3	2	5	3	5	1	1	3	2		30	50	40		1		1	
5	3	2	2	1	4	1	5	4	5	2	2	3	2	2	2	100	90							
6	4	2	1	2	3	1	5	5	5	2	1	3	3	1	1	60		100		90				
7	5	5	5	4	4	4	5	2	5	1	4	1	1	1	1	50					1	1	1	
8	6	5	5	3	3	2	3	5	5	2	3	1	3	2	3	20		40	30					
9	7	3	2	2	4	5	3	4	5	5	5	3	1	3	1	80		100		Pineapple - 40				
10	8	2	2	5	5	5	1	5	1	2	1	2	3	2	20		70		80		1	1	1	
11	9	1	2	3	2	4	4	4	4	3	2	1	2	1	50				100					
12	10	3	5	3	2	5	5	1	3	5	2	2	1	2	1	50		20	30		1	1	1	
13	11	2	3	1	3	3	4	2	5	4	1	3	3	3	1		20	50						
14	12	1	1	3	4	2	5	4	1	4	2	1	3	3	3		50	60	100					
15	13	1	2	3	2	3	1	3	1	5	2	1	3	3	2	20	70	100			1	1	1	
16	14	1	1	1	2	3	2	4	1	3	3	1	2	2	1	10					1	1	1	
17	15	2	5	3	3	5	5	2	5	5	1	1	1	1	1			60						
18	16	3	1	2	1	3	3	4	1	4	1	1	1	3	2	50	80		100					
19	17	4	2	5	4	2	2	2	1	3	4	3	1	2	3	90					1	1	1	
20	18	4	1	1	2	3	4	2	2	2	1	1	1	2	1	50		90						
21	19	2	1	3	3	5	5	1	3	5	3	2	2	2	2	80		40		30			1	1
22	20	2	5	2	1	3	4	3	4	1	4	1	3	1	2		100	70			1		1	



Cleaning Data

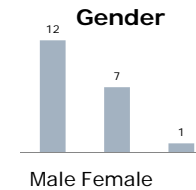
Gender	
	Frequency
Male	12
Female	7
3	1
	20



Using Ms Excel for Statistical Analysis

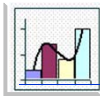
Descriptive Statistics

Gender	
	Frequency
Male	12
Female	7
3	1
	20



Charts

Age	
Mean	36.35
Standard Error	2.215
Median	33
Mode	28
Standard Deviation	9.906
Sample Variance	98.134
Kurtosis	-1.221
Skewness	0.252
Range	33
Minimum	21
Maximum	54
Sum	727
Count	20

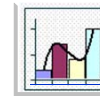


Get the Right Tool for the Job!



**Friends Don't Let Friends
Use Excel for Statistics!**

<http://www.cs.uiowa.edu/~jcryer/JSMTalk2001.pdf>



Data capturing in SPSS

- Menu
- Data view
- Variable view
 - Variable name
 - Variable type
 - Variable length
 - Labels
 - Category values
 - Missing values
- Data types

SPSS Statistics Data Editor - Variable View

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1 QuestionnaireNum	Numeric	11	0	Questionnaire	None	None	14	Right	Scale	Input
2 Q1.1	Numeric	11	0	My work is sat...	(1 Strongly Disagree)...	None	4	Right	Scale	Input
3 Q1.2	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
4 Q1.3	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
5 Q1.4	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
6 Q1.5	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
7 Q1.6	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
8 Q1.7	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
9 Q1.8	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
10 Q1.9	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
11 Q1.10	Numeric	11	0		(1 Strongly Disagree)...	None	4	Right	Scale	Input
12 Q2.1	Numeric	11	0	Do you have a	(1 Yes)...	None	4	Right	Nominal	Input
13 Q2.2	Numeric	11	0		(1 Yes)...	None	4	Right	Nominal	Input
14 Q2.3	Numeric	11	0		(1 Yes)...	None	4	Right	Nominal	Input
15 Q2.4	Numeric	11	0		(1 Yes)...	None	4	Right	Nominal	Input
16 Grapes	Numeric	11	0		None	None	7	Right	Scale	Input
17 Peaches	Numeric	11	0		None	None	7	Right	Scale	Input
18 Plums	Numeric	11	0		None	None	7	Right	Scale	Input
19 Cherries	Numeric	11	0		None	None	7	Right	Scale	Input
20 FruitOther	String	11	0		None	None	10	Left	Nominal	Input
21 FruitOtherNum	Numeric	11	0		None	None	10	Right	Scale	Input
22 LandLine	Numeric	11	0		None	None	10	Right	Nominal	Input
23 CellPhone	Numeric	11	0		None	None	10	Right	Nominal	Input
24 FaxMachine	Numeric	11	0		None	None	10	Right	Nominal	Input
25 TransistorRadio	Numeric	11	0		None	None	10	Right	Nominal	Input
26 OtherComm	Numeric	11	0		None	None	10	Right	Nominal	Input
27 Computer_Pers	Numeric	11	0		None	None	10	Right	Nominal	Input
28 Computer_Bus	Numeric	11	0		None	None	10	Right	Nominal	Input
29 Internet_Pers	Numeric	11	0		None	None	9	Right	Nominal	Input
30 Internet_Bus	Numeric	11	0		None	None	9	Right	Nominal	Input
31 Email_Pers	Numeric	11	0		None	None	9	Right	Nominal	Input

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Example SPSS Data.sav [DataSet1] - PASW Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

QuestionnaireNumber Q1.1 Q1.2 Q1.3 Q1.4 Q1.5 Q1.6 Q1.7 Q1.8 Q1.9 Q1.10 Q2.1 Q2.2 Q2.3 Q2.4 Grapes Peaches Plums Cherries FruitOther

1	1	3	2	4	4	2	1	5	4	3	1	3	2	2	50			75 Litchi - 2
2	2	1	4	3	2	3	3	2	5	3	5	1	1	3	2	30	50	40
3	3	2	2	1	4	1	5	4	5	2	2	3	2	2	100	90		
4	4	2	1	2	3	1	5	5	5	2	1	3	3	1	60	100	90	
5	5	5	5	4	4	4	5	2	5	1	4	1	1	1	50			
6	6	5	5	3	3	2	3	5	5	2	3	1	3	2	20		40	
7	7	3	2	2	4	5	3	4	5	5	5	3	1	3	1	80		100
8	8	2	2	5	5	5	5	1	5	1	2	1	2	3	20		70	
9	9	1	2	3	2	4	4	4	4	3	2	1	2	1	50			
10	10	3	5	3	2	5	5	1	3	5	2	2	1	2	1	50		20
11	11	2	3	1	3	3	4	2	5	4	1	3	3	3	1		20	50
12	12	1	1	3	4	2	5	4	1	4	2	1	3	3	3		50	60
13	13	1	2	3	2	3	1	3	1	5	2	1	3	3	2	20	70	100
14	14	1	1	1	2	3	2	4	1	3	3	1	2	2	1	10		
15	15	2	5	3	3	5	5	2	5	5	1	1	1	1	1		60	
16	16	3	1	2	1	3	3	4	1	4	1	1	1	3	2	50		100
17	17	4	2	5	4	2	2	2	1	3	4	3	1	2	3	90		
18	18	4	1	1	2	3	4	2	2	2	1	1	1	2	1	50		90
19	19	2	1	3	3	5	5	1	3	5	3	2	2	2	2	80	40	30
20	20	2	5	2	1	3	4	3	4	1	4	1	3	1	2	100	70	
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

Variable: 40 of 40 Variat

Data View Variable View

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